No. 783.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *March 31, 1913.*

MONTHLY LIST OF PUBLICATIONS.

[MARCH, 1913.]

NOTE.—Copies of any of the publications listed herein, **except publications of the Weather Bureau,** may be obtained **free upon application to the Editor and Chief of the Division of Publications, U. S. Department of Agriculture, Washington, D. C.,** as long as the department's supply lasts. The edition of many of the publications is necessarily limited, and when same is exhausted applicants may obtain copies from the Superintendent of Documents, Government Printing Office, Washington, D. C., who, under the provisions of the joint resolution of March 28, 1904, is empowered to have reprints made and sell them at the prices herein given. Do not apply to the Superintendent of Documents for publications **without sending the price of same,** as he does not distribute them except by sale. The price of all documents, unless otherwise noted, is 5 cents per copy.

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The Department of Agriculture does not distribute or control the distribution of the publications of the State boards of agriculture or of the State agricultural experiment stations.

ADVANCE SHEETS, FIELD OPERATIONS OF THE BUREAU OF SOILS.

Reconnoissance Soil Survey of Tattnall County, Georgia. By Hugh H. Bennett, Inspector in Charge Southern Division. Pp. 18, pls. 2, fig. 1. (From F. O. Soils, 1912.) Price, 5 cents.

BULLETINS.

NEW.

A Study of the Bacteria Which Survive Pasteurization. By S. Henry Ayers, Bacteriologist, and William T. Johnson, jr., Scientific Assistant, Dairy Division. Pp. 66, figs. 30. (Bulletin 161, Bureau of Animal Industry.) Price, 10 cents.

Classification of the Aleyrodidæ. Part 1. By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations, and A. C. Baker, Expert. Pp. 93, pls. 34, figs. 11. (Technical Series No. 27, Part 1, Bureau of Entomology.) Price, 25 cents.

Papers on Deciduous Fruit Insects and Insecticides. I. Spraying Experiments Against the Grape Leafhopper in the Lake Erie Valley. By Fred Johnson, Agent and Expert. II. Life History of the Codling Moth and Its Control on Pears in California. By S. W. Foster, Agent and Expert. III. Vineyard Spraying Experiments Against the Rose-Chafer in the Lake Erie Valley. By Fred Johnson, Agent and Expert. IV. The California Peach Borer. By Dudley Moulton, Special Agent. V. Notes on the Peach and Plum Slug.

By R. A. Cushman, Agent and Expert. VI. Notes on the Peach Bud Mite. By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations. VII. The Grape Scale. By James F. Zimmer, Entomological Assistant. Pp. 132, pls. 19, figs. 27. (Bulletin 97, Bureau of Entomology.) Price, 25 cents.

Papers on Deciduous Fruit Insects and Insecticides. The Fruit-Tree Leaf-Roller. By John B. Gill, Entomological Assistant. Pp. iv+91–110, pls. 5. (Bulletin 116, Part 5, Bureau of Entomology.) Price, 10 cents.

Lime-Magnesia Ratio as Influenced by Concentration. By P. L. Gile, Chemist. Pp. 24, pls. 4. (Bulletin 12, Porto Rico Experiment Station.) Price, 10 cents.

Experiment Station Records, Vol. XXVIII, No. 2, February, 1913. E. W. Allen, Ph. D., Editor. Pp. 101–200. Price, 15 cents.

Same, Vol. XXVIII, No. 3. Abstract Number. Pp. 201–300. Price, 15 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at $1 a volume.

Monthly Bulletin of the Library, January, 1913. Vol. 4. No. 1. Pp. 33. (Library.) Price, 5 cents.

Contributions to the Study of Maize Deterioration. Biochemical and Toxicological Investigations of Penicillium Puberulum and Penicillium Stoloniferum. By Carl L. Alsberg and Otis F. Black, Chemical Biologists, Drug-Plant, Poisonous-Plant, Physiological, and Fermentation Investigations. Pp. 48, pl. 1. (Bulletin 270, Bureau of Plant Industry.) Price, 10 cents.

The Utilization of Waste Raisin Seeds. By Frank Rabak, Chemical Biologist, Drug-Plant, Poisonous-Plant, Physiological, and Fermentation Investigations. Pp. 36, figs. 3. (Bulletin 276, Bureau of Plant Industry.) Price, 5 cents.

A Biochemical Study of the Curly-Top of Sugar Beets. By Herbert H. Bunzel, Chemical Biologist, Drug-Plant, Poisonous-Plant, Physiological, and Fermentation Investigations. Pp. 28. (Bulletin 277, Bureau of Plant Industry.) Price, 5 cents.

Descriptive Catalogue of the Road Models of the Office of Public Roads. (Revision of Office of Public Roads Bulletin No. 36.) Pp. 29, pls. 17, fig. 1. (Bulletin 47, Office of Public Roads.) Price, 15 cents.

The Microscopic Determination of Soil-Forming Minerals. By W. J. McCaughey and William H. Fry, Scientists in Chemical and Physical Laboratories. Pp. 100, figs. 12. (Bulletin 91, Bureau of Soils.) Price, 10 cents.

Wells and Subsoil Water. By W. J. McGee, Expert in Charge, Soil Water Investigations. Pp. 185. (Bulletin 92, Bureau of Soils.) Price, 20 cents.

The Utilization of Acid and Basic Slags in the Manufacture of Fertilizers. By William H. Waggaman, Scientist in Fertilizer Investigations. Pp. 18, pl. 1. (Bulletin 95, Bureau of Soils.) Price, 5 cents.

REPRINTS.

Dourine of Horses: Its Causes and Suppression. (Bulletin 142, Bureau of Animal Industry.) Price, 15 cents.

Distribution and Migration of North American Shorebirds. (Bulletin 35, Revised, Bureau of Biological Survey.) Price, 15 cents.

Papers on Deciduous-Fruit Insects and Insecticides. The Spring Canker-Worm. (Bulletin 68, Part 2, Bureau of Entomology.) Price, 5 cents.

Papers on Deciduous-Fruit Insects and Insecticides. The Grape-Berry Moth. (Bulletin 116, Part 2, Bureau of Entomology.) Price, 15 cents.

Circulars.

NEW

The Utilization of Exhaust Steam for Heating Boiler Feed Water and Wash Water in Milk Plants, Creameries, and Dairies. By John T. Bowen, Technologist, Dairy Division. Pp. 13, figs. 3. (Circular 209, Bureau of Animal Industry.)

Identification of Tanned Skins. By C. Frank Sammet, Assistant Chemist, Leather and Paper Laboratory. Pp. 2, pls. 9. (Circular 110, Bureau of Chemistry.)

The Quantitative Separation and Determination of Subsidiary Dyes in the Permitted Food Colors. By Walter E. Mathewson, Assistant Chemist, New York Food and Drug Inspection Laboratory. Pp. 4. (Circular 113, Bureau of Chemistry.)

The Identification of Small Amounts of Dyestuffs by Oxidation with Bromin. By Walter E. Mathewson, Assistant Chemist, New York Food and Drug Inspection Laboratory. Pp. 3. (Circular 114, Bureau of Chemistry.)

The Fowl Tick. By F. C. Bishopp, Entomological Assistant. Pp. 14, figs. 5. (Circular 170, Bureau of Entomology.)

Field Observations on Sugar-Cane Insects in the United States in 1912. By T. E. Holloway, Entomological Assistant. Pp. 8. (Circular 171, Bureau of Entomology.)

Mechanical Properties of Woods Grown in the United States. Preliminary Summary of Tests on Small, Clear, Green Specimens of Forty-nine Species of Woods. Pp. 4. Table. (Circular 213. Forest Service.)

Tests of Packing Boxes of Various Forms. By John A. Newlin, Engineer in Forest Products. Pp. 23, figs. 4. (Circular 214, Forest Service.)

Effect of Forest Fires on Standing Hardwood Timber. By W. H. Long, Forest Pathologist, Bureau of Plant Industry. Pp. 6. (Circular 216, Forest Service.)

Forage-Crop Experiments at the San Antonio Field Station. By S. H. Hastings, Superintendent, San Antonio Field Station. Pp. 27, pls. 4. (Circular 106, Bureau of Plant Industry.)

Miscellaneous Papers. [I] Two Types of Proliferation in Alfalfa. By R. A. Oakley and Samuel Garver. [II.] A New System of Cotton Culture. By O. F. Cook. [III.] Grasses for Canal Banks in Western South Dakota. By A. C. Dillman. Pp. 31, figs. 10. (Circular 115, Bureau of Plant Industry.)

Miscellaneous Papers. [I.] The Fundamentals of Crop Improvement. By W. T. Swingle. [II.] The Work of the Scottsbluff Experiment Farm in 1912. By Fritz Knorr. [III.] The Himalaya Blackberry. By H. P. Gould. [IV.] The Artificial Curing of Alfalfa Hay. By H. B. McClure. Pp. 31, figs. 7. (Circular 116, Bureau of Plant Industry.)

Miscellaneous Papers. [I.] The Bureau of Plant Industry, Its Functions and Efficiency. By B. T. Galloway. [II.] The Relation of Agricultural Extension Agencies to Farm Practices. By C. Beaman Smith and K. H. Atwood. Pp. 25, fig. 1. (Circular 117, Bureau of Plant Industry.)

Miscellaneous Papers. [I.] The Economics of Crop Disposal. By C. S. Scofield. [II.] The Abortion of Fruiting Branches in Cotton. By O. F. Cook. [III.] Fruit Growing on the Truckee-Carson Project. By F. B. Headley and Vincent Fulkerson. [IV.] The Excretion of Cytase by Penicillium Pinophilum. By K. F. Kellerman. Pp. 31, figs. 9. (Circular 118, Bureau of Plant Industry.)

Miscellaneous Papers. [I.] The Grafted Papaya as an Annual Fruit Tree. By David Fairchild and Edward Simmonds. [II.] The Work of the Belle Fourche Experiment Farm in 1912. By Beyer Aune. [III.] A Hand Grain Thrasher. By L. J. Briggs. [IV.] Arabian Alfalfa. By Roland McKee. Pp. 30, figs. 10. (Circular 119, Bureau of Plant Industry.)

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Monthly List of Publications for February, 1913. Pp. 4. (Document 781, Division of Publications.)

Foreign Crops, February, 1913. By Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 20. (Circular 46, Bureau of Statistics.)

Crop Reporter, Vol. 15, No. 3, March, 1913. Pp. 17–24. (Bureau of Statistics.) The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

FARMERS' BULLETIN.

NEW.

Fifty Common Birds of Farm and Orchard. Prepared in the Bureau of Biological Survey. Henry W. Henshaw, Chief. Pp. 31, il. 50. (Farmers' Bulletin 513.) Price, 15 cents.

Experiment Station Work LXXIII. Compiled from the Publications of the Agricultural Experiment Stations. Pp. 24. figs. 3. (Farmers' Bulletin 522.) Contents: Still for Alkali Water—Drainage Wet Soils—Marrow Cabbage—Beef Cattle in the South—Poultry Raising—Cost of Producing Milk—Milk-Powder Starters—Sheep-Branding Paints—Corporation among Fruit Growers.

Tile Drainage on the Farm. By A. G. Smith, Agriculturist, Office of Farm Management, Bureau of Plant Industry. Pp. 27, figs. 15. (Farmers' Bulletin 524.)

Raising Guinea Pigs. By David E. Lantz, Assistant, Bureau of Biological Survey. Pp. 12, figs. 5. (Farmers' Bulletin 525.)

SEPARATES.

NEW.

Work and Expenditures of the Agricultural Experiment Stations for the year ended June 30, 1911. By E. W. Allen and J. L. Schulte. Pp. v+53–230, pls. 9. (O. E. S. Doc. 1504. From Annual Report of the Office of Experiment Stations, 1911.)

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.

Forecasting the Weather. By George S. Bliss, Section Director. Pp. 34, figs. 4. (Bulletin 42, Weather Bureau.) Price, 5 cents.

Monthly Weather Review, Vol. 40, No. 12, December, 1912. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 1765–1923, maps 2, charts 8. (W. B. No. 497.) Price, 35 cents; $4 a year.

National Monthly Weather Bulletin No. 2, for February, 1913, reporting temperature and rainfall with a summary of weather conditions throughout the United States. [Weekly, April–September, Monthly, remainder of year.] Price, 25 cents a year.

Snow and Ice Bulletins for March 5, 11, 18, 25. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this department can be furnished to applicants. A charge will be made for these photographs which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

JOS. A. ARNOLD,
Editor and Chief.

Approved:

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Secretary of Agriculture.

WASHINGTON: GOVERNMENT PRINTING OFFICE: 1913